Index of Claims

| Annication/Control  |      |
|---------------------|------|
|                     | No   |
| Application/Control | 110. |

09/918,634 Examiner

Ashok Patel

Applicant(s)/Patent under Reexamination

CHO ET AL.

Art Unit

2879

| √ | Rejected |
|---|----------|
| = | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
|   | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| - | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla                  | aim      | Date   |              |          |          |              |           | Claim Date   |  |  |          |                      |          |                    |          | CI       | aim          | Date         |                         |                                    |          |       |          |            |          |                     |              |          |          |          |               |                    |          |
|----------------------|----------|--------|--------------|----------|----------|--------------|-----------|--------------|--|--|----------|----------------------|----------|--------------------|----------|----------|--------------|--------------|-------------------------|------------------------------------|----------|-------|----------|------------|----------|---------------------|--------------|----------|----------|----------|---------------|--------------------|----------|
| Final                | Original | 3/1/05 |              |          |          |              |           |              |  |  |          | Final                | Original |                    |          |          |              |              |                         |                                    |          |       | Final    | Original   |          |                     | :            |          |          |          |               |                    |          |
|                      | 1        | =      |              |          |          |              |           |              |  |  |          |                      | 51       |                    |          |          |              | $\perp$      |                         |                                    |          |       |          | 101        |          |                     |              |          |          |          |               | 1                  | ╗        |
|                      | 2        |        |              |          | Ŀ        | <u> </u>     |           | .↓           |  | <u> </u>   |          |                      | 52       |                    | $\Box$   |          |              |              |                         |                                    |          |       |          | 102        |          |                     |              |          |          | $\Box$   | $\Box$        |                    | ╗        |
|                      | 3        | =      |              |          | <u> </u> | ــ           | $\vdash$  | -            | ļ                                      | ļ  |          |                      | 53       | Ш                  | 4        | 4        | 4            | 4            | _                       | $\perp$                            | Щ        |       |          | 103        | Ш        | $\Box$              | _            | _        | _        |          | _             | $\perp$            | ╛        |
|                      | 4        |        |              |          | -        | _            | -         | ļ            | -                                      | ├  | -        |                      | 54       | Щ                  | -        | -        | -            | 4            | 4                       | $\bot$                             |          |       |          | 104        | L        | $\Box$              | _            | _        | _        | _        | _             | _                  | 4        |
| <u> </u>             | 5        | -      | -            | _        | ┢        | ╁            | ╁╌        |              | -                                      | $\vdash$   | -        |                      | 55<br>56 | Н                  | $\dashv$ | -        | +            | +            | +                       | +                                  |          |       |          | 105<br>106 | Н        | $\dashv$            | -            | +        |          |          | -             | $\dashv$           | 4        |
|                      | 7        |        | $\vdash$     |          | ┢        | ╁╌           | ╁         | +            | +                                      | -  | 1        |                      | 57       | Н                  | 十        | $\dashv$ | $\dashv$     | +            |                         | +                                  | Н        |       | <u> </u> | 107        | Н        |                     | $\dashv$     | -        | $\dashv$ | $\dashv$ | $\dashv$      | +                  | $\dashv$ |
| <u> </u>             | 8        |        | Н            |          | $\vdash$ | $\vdash$     | +-        | ╁            | $\vdash$                               | $\vdash$   | 1        | <b></b>              | 58       | Н                  | +        | $\dashv$ | +            | +            |                         | +                                  |          |       |          | 108        | -        | $\vdash$            | $\dashv$     | -        | $\dashv$ | $\dashv$ | -             | +                  | $\dashv$ |
|                      | 9        |        |              |          |          | $\vdash$     | $\top$    | †            | 1                                      | <del>                                     </del> | 1        |                      | 59       | Н                  | _        | $\dashv$ | 十            | 十            | ╅                       | $\top$                             |          |       | <u> </u> | 109        | П        | Н                   | _            | ┪        |          | $\neg$   | $\dashv$      | 十                  | ᅥ        |
|                      | 10       |        |              |          |          | T            |           |              |  |  |          |                      | 60       | П                  |          | 寸        | $\dashv$     | 7            |                         |                                    |          |       |          | 110        | П        | П                   | 寸            |          | ┪        | $\neg$   | _             | 寸                  | ヿ        |
|                      | 11       |        |              |          |          |              |           |              |  |  | ]        |                      | 61       |                    |          |          |              |              | $\perp$                 |                                    |          |       |          | 111        |          |                     |              |          |          |          |               |                    | ╗        |
|                      | 12       |        | $oxed{\Box}$ |          | Ŀ        |              |           |              |  |  | 1        |                      | 62       | Ш                  | $\Box$   | $\Box$   | $\bot$       | $\perp$      |                         |                                    |          |       |          | 112        |          |                     | $\Box$       |          |          |          |               |                    | $\Box$   |
| <u></u>              | 13       | _      | <u> </u>     |          |          | $\perp$      | ┺         | ↓            | <u> </u>                               | 1  | 4        |                      | 63       | Ш                  | [        | $ \bot $ | _            | 1            |                         | Ш                                  |          |       |          | 113        |          | $\Box$              | $\Box$       | $\Box$   |          |          | $\Box$        | $oldsymbol{\perp}$ | ⅃        |
| <u></u>              | 14.      | _      | $\vdash$     | <u> </u> | ļ.       | $\vdash$     | ╄         | -            | <del> </del> _                         | ـ  | 4        |                      | 64       | $\sqcup$           | $\dashv$ | _        | $\downarrow$ | $\downarrow$ | +                       | $\perp$                            | Щ        |       | <u> </u> | 114        | Ш        | $\sqcup$            | $\downarrow$ | _        |          | _        | _ļ            | $\dashv$           | $\dashv$ |
|                      | 15       |        |              | _        | ⊢        | ┡            | $\vdash$  | <del> </del> | -                                      | ⊢  | -        |                      | 65       | Ш                  | -+       | $\dashv$ | -            | -            | 4                       | +                                  |          |       | ļ        | 115        |          | $\sqcup$            | _            | 4        | $\dashv$ | _        | _             | $\dashv$           | 4        |
| <u> </u>             | 16<br>17 | -      | $\vdash$     | _        | $\vdash$ | +            | ╁         | +            | -                                      | ╁  | 1        | <b></b>              | 66<br>67 | $\vdash$           | $\dashv$ | $\dashv$ | $\dashv$     | +            | +                       | +                                  | Н        |       | <u> </u> | 116<br>117 | H        | $\vdash \downarrow$ | -+           | -        | _        |          | -             | +                  | $\dashv$ |
| -                    | 18       |        |              | _        | ╁        | ┼            | +         | +            | +                                      | $\vdash$   | -        |                      | 68       | $\vdash$           | $\dashv$ | $\dashv$ | -            | +            |                         | +                                  |          |       | <u> </u> | 118        |          | -                   | -            | $\dashv$ |          | $\dashv$ | $\dashv$      | -+-                | $\dashv$ |
|                      | 19       |        |              |          | ┢        | +-           | +         | ╁            | +                                      | 十  | 1        |                      | 69       | Н                  | -        | $\dashv$ | +            | ╅            | +                       | +                                  |          |       | <b></b>  | 119        | H        | $\vdash$            | $\dashv$     | $\dashv$ | $\dashv$ |          | $\dashv$      | +                  | ┥        |
|                      | 20       |        |              |          | ┢        | ╁╴           | T         |              | 1                                      | t  |          |                      | 70       | Н                  | $\dashv$ | $\dashv$ | +            | +            | +                       | +                                  |          |       |          | 120        | Н        |                     | 7            | ᅱ        |          | $\dashv$ | $\dashv$      | +                  | $\dashv$ |
|                      | 21       |        |              |          |          | T            | T         | $\top$       | t                                      | T  | 1        |                      | 71       |                    | 7        | $\dashv$ | $\top$       | T            | +                       | $\top$                             |          |       |          | 121        | Н        | Ħ                   | $\dashv$     | ᅥ        |          |          | $\dashv$      | +                  | ᅥ        |
|                      | 22       |        |              |          |          | 1            |           | 1            |  | Ī  |          |                      | 72       | П                  |          | ╛        | $\neg$       | T            | T                       |                                    |          |       |          | 122        |          |                     | 寸            | ┪        |          | 一        | 寸             | $\top$             | ヿ        |
|                      | 23       |        |              |          |          |              |           | L            |  |  |          |                      | 73       |                    |          |          |              | $\perp$      |                         |                                    |          |       |          | 123        |          |                     |              |          |          | T        |               | $\top$             | ٦        |
|                      | 24       |        |              |          | L        | 上            | 1         | ↓_           |  | <u> </u>   |          |                      | 74       | Ш                  |          |          |              |              |                         |                                    |          |       |          | 124        |          |                     |              |          |          |          |               | $\Box$             |          |
| J                    | 25       | _      |              |          | <u> </u> | ╙            | ↓         | 4            | _                                      | ļ  |          |                      | 75       | Ш                  | _        | 4        | _            | $\perp$      | $\perp$                 | $\downarrow \downarrow \downarrow$ |          |       |          | 125        |          |                     | 4            | _        | _        | _        | _             |                    | ᅵ        |
| <u> </u>             | 26       |        |              |          | ļ        | ╁            | ╀         | ╂            | -                                      |  | 4        |                      | 76       | Н                  | -        | 4        | _            | 4            |                         | -                                  |          |       |          | 126        | L        | $\dashv$            | $\perp$      | _        | _        | _        | _             | 4                  | 4        |
| -                    | 27<br>28 |        |              | _        | -        | ╁            | ╁         | ╁            | ╁                                      | ╁  | 1        | <u> </u>             | 77<br>78 | Н                  | +        | -        | +            | +            | -                       | -                                  | -        |       |          | 127        | L.       | $\dashv$            | $\dashv$     | _        |          | _        |               | $\dashv$           | 4        |
| <b>-</b>             | 29       |        |              |          |          | ╁╌           | ╁         | ╁╴           | ╁                                      | $\vdash$   | ┨        |                      | 79       | Н                  | $\dashv$ | ┰        |              | +            | +-                      |                                    |          |       |          | 128<br>129 | H        | $\dashv$            | $\dashv$     |          | $\dashv$ |          |               | +                  | ᅱ        |
|                      | 30       | _      |              | -        |          | <del> </del> | ╁         | 十            | ╁                                      | ╁  | ł        |                      | 80       | Н                  | $\dashv$ | $\dashv$ | $\dashv$     | +            | +-                      | ╁                                  | -        |       | <u> </u> | 130        | Н        | $\dashv$            | $\dashv$     | -        | $\dashv$ | $\dashv$ |               | +                  | ┥        |
|                      | 31       |        |              |          | $\vdash$ | 十            | ╁         | T            | +                                      | t  | 1        | _                    | 81       | H                  | $\dashv$ | $\dashv$ | -+           | +            | +-                      | 1-                                 | Н        |       | <u> </u> | 131        | Н        | $\dashv$            | $\dashv$     | ᅱ        |          | $\dashv$ |               | +                  | ┥        |
|                      | 32       |        |              |          | $\vdash$ | $\vdash$     | $\dagger$ | T            | 1                                      | $\vdash$   | 1        |                      | 82       |                    | 7        | 十        | 十            | $\dashv$     | +                       | ╁┈                                 |          |       | <u> </u> | 132        | Н        | $\dashv$            | -+           |          | $\dashv$ | -        | $\dashv$      | $\dashv$           | ᅥ        |
|                      | 33       |        |              |          |          |              |           |              |  |  | 1        |                      | 83       |                    | 一        | $\dashv$ | 十            | 丁            |                         | $\Box$                             |          |       |          | 133        | П        | $\Box$              | $\dashv$     | 7        | $\dashv$ | 一        | 7             | $\top$             | ヿ        |
|                      | 34       |        |              |          |          |              |           |              |  |  | ]        |                      | 84       |                    |          |          | I            | floor        | $\perp$                 |                                    |          |       |          | 134        |          |                     |              |          |          |          | 丁             | 丁                  |          |
|                      | 35       |        |              |          | _        | <u> </u>     | 1_        | _            | 1_                                     | <u> </u>   |          |                      | 85       | Щ                  | $\Box$   |          | $\perp$      | 1            |                         |                                    |          |       |          | 135        | Ш        |                     | $\Box$       | ┚        | $\Box$   |          |               | $oldsymbol{\perp}$ | $\Box$   |
|                      | 36       |        | Ш            |          |          | ↓_           | ↓_        | $\vdash$     | <del> </del>                           | <u> </u>   | <b> </b> | <u> </u>             | 86       | L                  | $\perp$  | 4        | 4            | 4            | $\bot$                  | Ш                                  | Ш        |       |          | 136        | Ш        |                     | _            |          | [        | [        | [             | $\perp$            | $\Box$   |
| $\vdash$             | 37       |        | Щ            |          | <u> </u> | <del> </del> | ╀         | ╄            |  | ├-   | <b> </b> | <u> </u>             | 87       |                    | _        | 4        | _            | 4            | $\perp$                 | $\perp \perp$                      | Ш        |       | <u> </u> | 137        | Ш        |                     | $\dashv$     | _        |          | _        | _             | 4                  | 4        |
|                      | 38<br>39 |        | Н            |          | $\vdash$ | -            | ╁         | +            | $\vdash$                               | $\vdash$   | 1        |                      | 88<br>89 | -                  | $\dashv$ | 4        | +            | +            | +                       | $\vdash$                           | $\vdash$ |       | <u> </u> | 138        | Н        | $\vdash$            | $\dashv$     | 4        | _        | _        |               | +                  | $\dashv$ |
| $\vdash$             | 40       | _      | $\vdash$     |          | $\vdash$ | -            | +         | +-           | +                                      | $\vdash$   | łiiii    | $\vdash \vdash$      | 90       | $\left  - \right $ | $\dashv$ | $\dashv$ | -+-          | +            | +                       | $\vdash$                           | $\dashv$ |       | <u> </u> | 139<br>140 | Н        | $\vdash$            | $\dashv$     | $\dashv$ | -        |          | $\dashv$      | +                  | $\dashv$ |
| $\vdash$             | 41       |        | $\vdash$     |          |          | t            | $\vdash$  | +-           | $\vdash$                               | ╁  | liiii    | $\vdash \vdash$      | 91       | $\vdash \vdash$    | $\dashv$ | +        | $\dashv$     | +            | +                       | +                                  | $\dashv$ |       |          | 141        | $\vdash$ | $\vdash$            | $\dashv$     | -        | $\dashv$ | $\dashv$ | $\dashv$      | +                  | $\dashv$ |
|                      | 42       |        |              | _        | _        | T            | †         | 1            | $\vdash$                               | <del>                                     </del> | 1        | $\vdash$             | 92       | $\vdash$           | $\dashv$ | +        | +            | +            | +-                      | $\forall$                          | $\vdash$ |       |          | 142        | $\vdash$ | $\dashv$            | $\dashv$     | $\dashv$ | $\dashv$ | $\dashv$ | -+            | +                  | $\dashv$ |
|                      | 43       |        |              |          |          | T            |           | 1            |  | T  | 1        |                      | 93       | $\Box$             | $\dashv$ | 7        | 十            | $\top$       | $\top$                  | $\dagger \exists$                  | $\dashv$ |       |          | 143        | H        | H                   | $\dashv$     | $\dashv$ | $\dashv$ | +        | $\dashv$      | +                  | $\dashv$ |
|                      | 44       |        |              |          |          |              |           |              |  |  |          |                      | 94       |                    |          |          | 丁            | 1            |                         |                                    |          |       |          | 144        | П        |                     | $\dashv$     | $\dashv$ |          | ┪        | 7             | $\top$             | ┪        |
|                      | 45       |        |              |          |          |              |           |              |  |  |          |                      | 95       |                    |          |          | Ι            | Ι            | $oldsymbol{\mathbb{T}}$ |                                    |          |       |          | 145        |          |                     |              |          |          |          | _1            | _†                 | ╛        |
| Ш                    | 46       |        |              |          | <u> </u> | <u> </u>     |           |              | $\perp$                                | oxdot  |          |                      | 96       |                    | $\Box$   | I        | I            | $\perp$      | $\perp$                 | $\square$                          |          |       |          | 146        |          |                     | $\Box$       | $\Box$   |          |          |               | I                  | ┚        |
| $\square$            | 47       |        |              | _        | <u> </u> | <u> </u>     | ↓_        | <del> </del> | ــــــــــــــــــــــــــــــــــــــ | $ldsymbol{f eta}$                                |          |                      | 97       |                    | $\perp$  | $\perp$  | 1            |              | $\perp$                 | Ш                                  |          |       |          | 147        | Щ        |                     | $\Box$       |          | $\Box$   | $\Box$   |               | $\perp$            | 긔        |
| $\vdash \vdash$      | 48       |        |              |          | $\vdash$ | <u> </u>     | $\vdash$  | $\vdash$     | ↓_                                     | <u> </u>   |          | <b>  </b>            | 98       | Ш                  | 4        | 4        | 4            | $\bot$       | 4-                      | $\sqcup$                           | [        |       |          | 148        | $\sqcup$ |                     |              | _        | _ļ       |          | ightharpoonup | $\perp$            | ╝        |
| $\vdash\vdash\vdash$ | 49       | _      | $\vdash$     | _        | $\vdash$ | $\vdash$     | ┼-        | $\vdash$     |  | ├-   | IIII     | $\vdash \vdash \mid$ | 99       | $\Box$             | $\dashv$ | $\dashv$ |              | +            | +                       | $\downarrow \downarrow$            | Щ        |       |          | 149        | $\sqcup$ |                     | _            | 4        | 4        | _        | _             | $\bot$             | 4        |
|                      | 50       |        | $\Box$       |          | Ц_       |              | 1         | 1            | 1                                      | 1  | ]:::::   |                      | 100      | <b> </b>           |          |          |              | - 1          |                         | 1 1                                |          | ::::: | l        | 150        | 1 1      |                     |              | - 1      |          | i        | - 1           |                    | - 1      |